## **IN THE CLAIMS:**

This listing of claims will replace all prior versions, and listing, of claims in the application.

## **Listing of the Claims:**

- 1. (Previously presented) A liner for a shaped charge perforator, the liner comprising a plastics material matrix having at least one non-explosive filler embedded therein characterized in that said liner comprises a first portion and a second portion, the first and second portions comprising different ratios of filler to matrix.
- 2-9. (Cancelled)
- 10. (Previously presented) A liner according to claim 1 in which the filler volume is in the range 45% to 85% of the combined volume of filler and matrix.
- 11. (Previously presented) A liner according to claim 1 in which the filler volume is in the range 45% to 65% of the combined volume of filler and matrix.
- 12. (Previously presented) A liner according to claim 1, wherein the filler comprises particles of substantially uniform size.
- 13. (Previously presented) A liner according to claim 1 in which the particles size lies in the range 10-250 nm.
- 14. (Previously presented) A liner according to claim 1, wherein the filler is a fibre.
- 15. (Withdrawn) A liner according to claim 1, wherein the filler is a flake.
- 16. (Withdrawn) A liner according to claim 1, wherein the filler is a non-metallic material.
- 17. (Previously presented) A liner according to claim 1, wherein the ratio of filler density to matrix density is substantially unity.

- 18. (Previously presented) A liner according to claim 1 in which the filler has a density in the range between 0.5 gcm<sup>-3</sup> and 5 gcm<sup>-3</sup>.
- 19. (Withdrawn) A shaped charge perforator comprising a liner according to claim 1.
- 20. (Withdrawn) A shaped charge perforator according to claim 19 comprising a case, at the liner and a quantity of explosive packed between the case and the liner.
- 21. (Withdrawn) A perforator gun comprising one or more shaped charge perforators according to claim 19.
- 22. (Withdrawn) A compound for use in manufacture of a liner according to claim 1 for shaped charge perforators under vacuum, the liner comprising a plastics material matrix having at least one non-explosive filler embedded therein and in which the filler volume comprises 45% to 85% of the combined volume of filler and matrix.
- 23. (Withdrawn) A manufacturing method for a liner according to claim 1 for a shaped charge perforator, the method comprising compounding a matrix of plastic material with particulate filler under vacuum.
- 24. (Cancelled)
- 25. (Withdrawn) A method according to claim 23 in which the filler volume comprises 45% to 85% of the combined volume of filler and matrix.
- 26. (Cancelled)
- 27. (Withdrawn) A method of improving fluid outflow from a well borehole the method comprising

perforating the borehole by means of a perforating gun according to claim 21.

28. (Withdrawn) A method according to claim 27 in which the fluid is one or more of hydrocarbons, water, and steam.

- 29. (Previously presented) A liner according to claim 1 for a shaped charge perforator, the liner comprising a plastics material matrix having at least one non-explosive filler embedded therein, the filler being non-uniformly distributed throughout the liner whereby to tune the liner.
- 30. (Previously presented) A liner according to claim 1 for a shaped charge perforator, the liner comprising a plastics material matrix having at least one non-explosive filler embedded therein, the liner being of non-uniform thickness whereby to tune the liner.
- 31. (Previously presented) A liner according to claim 1 for a shaped charge perforator, the liner comprising a plastics material matrix having at least one non-explosive filler embedded therein, the filler being substantially density-matched to the plastics material.
- 32. (Previously presented) A component according to claim 1, wherein the filler is a metallic material.
- 33. (New) A liner for a shaped charge perforator, the liner comprising a plastics material matrix having at least one non-explosive filler embedded therein wherein the liner comprises a first portion and a second portion, the first and second portions comprising different ratios of filler to matrix such that the different loadings of filler to matrix provide the liner with tuned characteristics.